

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/558,276
Source: PG 1/10
Date Processed by STIC: 12/5/05

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PCT

RAW SEQUENCE LISTING

DATE: 12/05/2005

PATENT APPLICATION: US/10/558,276

TIME: 10:54:33

Input Set : A:\Sequence Listing 05986-100M536-US1.txt

Output Set: N:\CRF4\12052005\J558276.raw

3 <110> APPLICANT: Wisniewski, Thomas
 4 Sigurdsson, Einar
 5 Goni, Fernando
 7 <120> TITLE OF INVENTION: MUCOSAL IMMUNIZATION TO PREVENT PRION INFECTION
 9 <130> FILE REFERENCE: 05986/100M536-US1
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/558,276
 C--> 11 <141> CURRENT FILING DATE: 2005-11-18
 11 <150> PRIOR APPLICATION NUMBER: PCT/US04/16242
 12 <151> PRIOR FILING DATE: 2004-05-20
 14 <150> PRIOR APPLICATION NUMBER: 60/472,262
 15 <151> PRIOR FILING DATE: 2003-05-20
 17 <160> NUMBER OF SEQ ID NOS: 32
 19 <170> SOFTWARE: PatentIn version 3.3
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 253
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
 28 Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr Trp
 29 1 5 10 15
 32 Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
 33 20 25 30
 36 Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
 37 35 40 45
 40 Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
 41 50 55 60
 44 Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
 45 65 70 75 80
 48 Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His
 49 85 90 95
 52 Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met
 53 100 105 110
 56 Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr
 57 115 120 125
 60 Met Leu Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp
 61 130 135 140
 64 Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln
 65 145 150 155 160
 68 Val Tyr Tyr Arg Pro Met Asp Glu Tyr Ser Asn Gln Asn Asn Phe Val
 69 165 170 175
 72 His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr
 73 180 185 190
 76 Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg

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```

77          195          200          205
80 Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala
81          210          215          220
84 Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val
85 225          230          235          240
88 Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
89          245          250
92 <210> SEQ ID NO: 2
93 <211> LENGTH: 264
94 <212> TYPE: PRT
95 <213> ORGANISM: Bovine
97 <400> SEQUENCE: 2
99 Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
100 1          5          10          15
103 Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
104          20          25          30
107 Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
108          35          40          45
111 Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His
112          50          55          60
115 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
116 65          70          75          80
119 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
120          85          90          95
123 Gly Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys
124          100          105          110
127 Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala
128          115          120          125
131 Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala
132          130          135          140
135 Met Ser Arg Pro Leu Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr
136 145          150          155          160
139 Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro
140          165          170          175
143 Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val Asn
144          180          185          190
147 Ile Thr Val Lys Glu His Thr Val Thr Thr Thr Thr Lys Gly Glu Asn
148          195          200          205
151 Phe Thr Glu Thr Asp Ile Lys Met Met Glu Arg Val Val Glu Gln Met
152          210          215          220
155 Cys Ile Thr Gln Tyr Gln Arg Glu Ser Gln Ala Tyr Tyr Gln Arg Gly
156 225          230          235          240
159 Ala Ser Val Ile Leu Phe Ser Ser Pro Pro Val Ile Leu Leu Ile Ser
160          245          250          255
163 Phe Leu Ile Phe Leu Ile Val Gly
164          260
167 <210> SEQ ID NO: 3
168 <211> LENGTH: 256
169 <212> TYPE: PRT

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170 <213> ORGANISM: Deer
172 <400> SEQUENCE: 3
174 Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
175 1 5 10 15
178 Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
179 20 25 30
182 Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
183 35 40 45
186 Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His
187 50 55 60
190 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
191 65 70 75 80
194 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly
195 85 90 95
198 Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
199 100 105 110
202 Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
203 115 120 125
206 Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
207 130 135 140
210 Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
211 145 150 155 160
214 Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Asn Asn Gln Asn
215 165 170 175
218 Thr Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
219 180 185 190
222 Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met
223 195 200 205
226 Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
227 210 215 220
230 Ser Glu Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
231 225 230 235 240
234 Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
235 245 250 255
238 <210> SEQ ID NO: 4
239 <211> LENGTH: 256
240 <212> TYPE: PRT
241 <213> ORGANISM: Elk
243 <400> SEQUENCE: 4
245 Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
246 1 5 10 15
249 Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
250 20 25 30
253 Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
254 35 40 45
257 Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His
258 50 55 60
261 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
262 65 70 75 80

```

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265 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln Gly
266      85      90      95
269 Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
270      100      105      110
273 Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
274      115      120      125
277 Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
278      130      135      140
281 Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
282 145      150      155      160
285 Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Asn Asn Gln Asn
286      165      170      175
289 Thr Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
290      180      185      190
293 Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met
294      195      200      205
297 Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
298      210      215      220
301 Ser Glu Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
302 225      230      235      240
305 Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
306      245      250      255
309 <210> SEQ ID NO: 5
310 <211> LENGTH: 256
311 <212> TYPE: PRT
312 <213> ORGANISM: Odocoileus hemionus
314 <400> SEQUENCE: 5
316 Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
317 1      5      10      15
320 Met Trp Ser Asp Val Gly Leu Cys Lys Arg Pro Lys Pro Gly Gly
321      20      25      30
324 Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
325      35      40      45
328 Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His
329      50      55      60
332 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln Pro His
333 65      70      75      80
336 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln Gly
337      85      90      95
340 Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
341      100      105      110
344 Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
345      115      120      125
348 Gly Gly Tyr Met Leu Gly Ser Ala Met Asn Arg Pro Leu Ile His Phe
349      130      135      140
352 Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
353 145      150      155      160
356 Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Asn Asn Gln Asn
357      165      170      175

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```

360 Thr Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
361      180      185      190
364 Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met
365      195      200      205
368 Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
369      210      215      220
372 Ser Gln Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
373 225      230      235      240
376 Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
377      245      250      255
380 <210> SEQ ID NO: 6
381 <211> LENGTH: 254
382 <212> TYPE: PRT
383 <213> ORGANISM: Mus musculus
385 <400> SEQUENCE: 6
387 Met Ala Asn Leu Gly Tyr Trp Leu Leu Ala Leu Phe Val Thr Met Trp
388 1      5      10      15
391 Thr Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
392      20      25      30
395 Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
396      35      40      45
399 Tyr Pro Pro Gln Gly Gly Thr Trp Gly Gln Pro His Gly Gly Gly Trp
400      50      55      60
403 Gly Gln Pro His Gly Gly Ser Trp Gly Gln Pro Pro Gly Gly Ser Trp
404 65      70      75      80
407 Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His Asn
408      85      90      95
411 Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Leu Lys His Val Ala
412      100     105     110
415 Gly Ala Ala Ala Gly Ala Val Gly Gly Leu Gly Gly Tyr Met
416      115     120     125
419 Leu Gly Ser Ala Met Ser Arg Pro Met Ile His Phe Gly Asn Asp Trp
420      130     135     140
423 Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr Pro Asn Gln Val
424 145     150     155     160
427 Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His
428      165     170     175
431 Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr Thr
432      180     185     190
435 Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg Val
436      195     200     205
439 Val Glu Gln Met Cys Val Thr Gln Tyr Gln Lys Glu Ser Asp Ala Tyr
440      210     215     220
443 Tyr Asp Gly Arg Arg Ser Ser Ser Thr Val Leu Phe Ser Ser Pro Pro
444 225     230     235     240
447 Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
448      245     250
451 <210> SEQ ID NO: 7
452 <211> LENGTH: 225

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RAW SEQUENCE LISTING ERROR SUMMARY

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; Xaa Pos. 121,122,123,129,130
 Seq#:18; Xaa Pos. 132,133,139,140,141
 Seq#:19; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,42,43,49,50,51
 Seq#:20; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,42,43,49,50,51,97,98,104,105,106
 Seq#:21; Xaa Pos. 32,33,39,40,41,56,57,58,59,60,61,62,63,64,65
 Seq#:22; Xaa Pos. 32,33,39,40,41,87,88,94,95,96,111,112,113,114,115,116,117
 Seq#:22; Xaa Pos. 118,119,120
 Seq#:23; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,42,43,49,50,51,66,67,68,69,70,71,72
 Seq#:23; Xaa Pos. 73,74,75
 Seq#:24; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,42,43,49,50,51,97,98,104,105,106,121
 Seq#:24; Xaa Pos. 122,123,124,125,126,127,128,129,130
 Seq#:25; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,50,51,57,58,59
 Seq#:26; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,50,51,57,58,59,113,114,120,121,122
 Seq#:27; Xaa Pos. 40,41,47,48,49,64,65,66,67,68,69,70,71,72,73
 Seq#:28; Xaa Pos. 40,41,47,48,49,103,104,110,111,112,127,128,129,130,131
 Seq#:28; Xaa Pos. 132,133,134,135,136
 Seq#:29; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,50,51,57,58,59,74,75,76,77,78,79,80
 Seq#:29; Xaa Pos. 81,82,83
 Seq#:30; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,127,128,129,130,131,132,133,134,135
 Seq#:30; Xaa Pos. 136
 Seq#:32; Xaa Pos. 1,2,8,9,10

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,18,19,20,21,22,23,24,25,26,27,28,29,30,32

VERIFICATION SUMMARY

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Input Set : A:\Sequence Listing 05986-100M536-US1.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:112
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:128
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:128
L:1354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:32
L:1366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:48
L:1395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:32
L:1407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:48
L:1419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:96
L:1452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:16
L:1456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:32
L:1460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:48
L:1464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:64
L:1493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:16
L:1497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:32
L:1509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:80
L:1513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:96
L:1517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:112
L:1547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:1555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:32
L:1559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:48
L:1563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:64
L:1593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:32
L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:48
L:1617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:96
L:1621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:112
L:1625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:128
L:1650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:48
L:1691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:1703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:48
L:1719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:112
L:1756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:32
L:1760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:48
L:1764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:64
L:1797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:32
L:1801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:48
L:1813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:96
L:1817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:112
L:1821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:128
L:1851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:48
L:1867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:64
L:1871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:80

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L:1901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:112
L:1933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:128
L:2012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0